

The Facilitator/Teacher Guide

to the

**Project Graduation
Virginia SOL Algebra Tutorial**

2006-2007 School Year

Table of Contents

Welcome	1
Overview	1
Eligibility	1
Tutorial Content and Structure	2
Getting Started – A Step by Step Use Model	3
1. Facilitators: Sign In	3
2. Facilitators: Create a Class.....	3
3. Facilitators: Assign the diagnostic pre-test	6
4. Facilitators: Prepare your students to take the pre-test.....	10
5. Students: Sign in and take the pre-test	10
6. Students: View pre-test results	14
7. Students: Access resources / practice quizzes.....	15
8. Facilitators: View individual student performance on the pre-test	16
9. Facilitators: Assign Resources.....	18
10. Facilitators: Re-assess, Re-analyze, Re-teach (aka: Wash, Rinse, Repeat...).....	21
Help and Information.....	22
Appendix	23
Virginia SOL Algebra Tutorial Unit Plan.....	23
On paper test administration.....	26

Welcome

On behalf of Virginia Department of Education and The Princeton Review, welcome to the Project Graduation Virginia SOL Algebra Tutorial. This facilitator/teacher guide is intended to provide you with an overview of the tutorial as well as step-by-step instructions on tutorial usage. We recommend that you review the entire guide prior to giving access to your students. We also recognize that everyone has different ways of teaching, and so, as you become more familiar with the Tutorial, we encourage you to find your own use model!

Overview

The Algebra Tutorial was developed as part of Governor Mark Warner's Project Graduation initiative and was utilized by over 3,500 high school students during the 2004-05 school year!

Built on The Princeton Review's assessment platform, Homeroom.com, the Tutorial is designed to identify student academic needs with an online pretest and tailor web-based lessons to meet those needs. After students have completed all recommended lessons, they will be given a final online assessment. Students may review tutorial lessons and retake the final online assessment as many times as they wish.

Although students may engage in lessons from home or school, each school must provide a contact person to serve as a facilitator and mentor to enrolled students. The school facilitator will have access to accounts, monitor student progress and offer individual guidance.

Eligibility

The Algebra Tutorial is available to students in grades 9 through 12 who have passed Algebra I (or Algebra I, Part 1, and Algebra I, Part 2; or have completed the algebra content in an integrated course series) but have failed the Algebra I Standards of Learning assessment. Teachers may also enroll high school students who are at risk of not passing the Algebra I SOL assessment.

For those facilitators who are using the Algebra Tutorial for the first time:

Please review the Unit Plan at the end of this guide for detailed SOL alignment.

Tutorial Content and Structure

The Tutorial is designed to help facilitators/teachers assess students' strengths and weaknesses via customized assessments, analyze student performance with a multitude of reports, and finally, take immediate action by assigning appropriate re-teaching resources. All Tutorial content has undergone a rigorous review by Virginia Department of Education.

ASSESS

Full-length Diagnostic Pre-test: This pre-test contains actual items from previously released SOLs and is completely aligned to the SOL blueprint. All students should begin the tutorial by taking the pre-test in an actual "test-like" setting.

Nine Instructional Units: There are nine instructional units, each with a corresponding unit pre/post quiz. (See Appendix for complete Tutorial Unit Plan).

Full-length Post-test: Students may take a final, full-length practice SOL prior to taking the actual SOL exam. Just like the pre-test, the post-test is comprised of actual items from previously released SOLs and follows the SOL blueprint.

ANALYZE

Performance Reports: Facilitators may use a variety of reports (i.e., individual student performance, overall class performance, item analysis) to diagnose student skill deficiencies. All reports are broken out by SOL reporting categories (*Expressions and Operations, Equations and Inequalities, Relations and Functions, Statistics*).

ACT

Skill Remediation Resources: The Tutorial provides teaching resources for every skill tested on the SOL. These resources include but are not limited to: lesson plans, worksheets and web activities.

A few things to remember....

As you read the next section, please keep in mind the following:

- **The Tutorial CAN and SHOULD be used for targeted remediation** for students who have taken the Algebra I SOL before, but who have been unable to pass it.
- **The Tutorial CAN and SHOULD be used with students who have not yet taken the SOL** and would benefit from exposure to SOL-like content and format.
- **The Tutorial is NOT a magic bullet** and should not be used to simply run students thru a battery of tests without any re-teaching of key concepts in between.

Getting Started – A Step by Step Use Model

1. Facilitators: Sign In

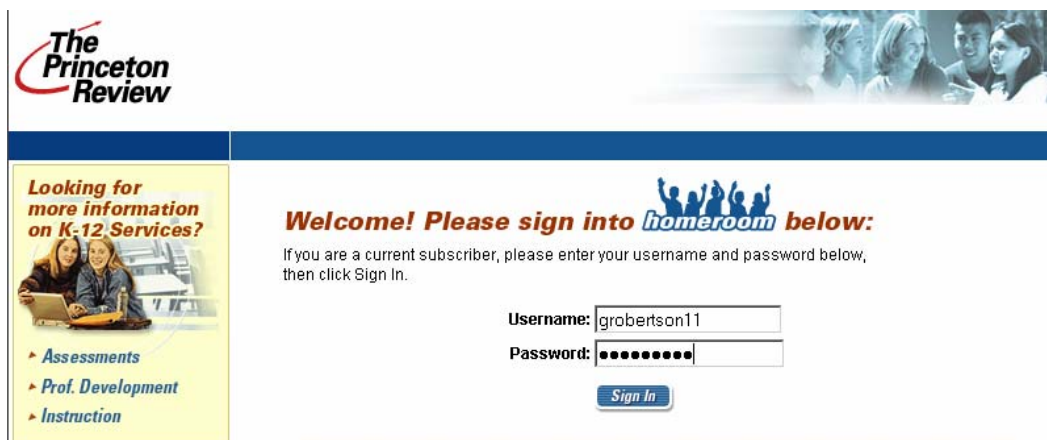
Facilitator Username/Password:

If you have already registered for the Tutorial, please refer to the Welcome email you received from The Princeton Review. If you have not yet received your username/password, please email The Princeton Review's Customer Support Team at helpme@review.com or call 1-888-778-7737.

Signing In:

Open up the web browser on your computer and type in the following address:

<https://ac.princetonreview.com/secure/loginhelp.asp>. Enter in your **username** and **password**. Click **Sign In**.



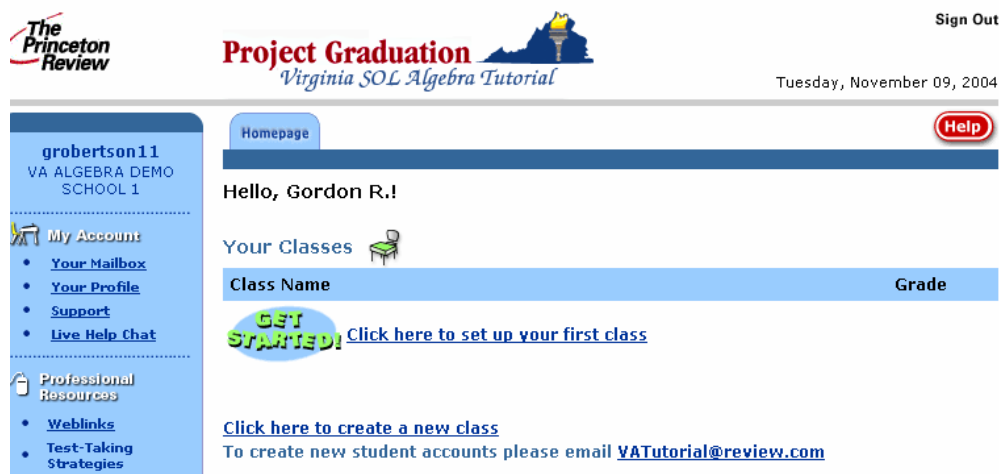
The screenshot shows the login page for The Princeton Review. At the top left is the logo. Below it, a yellow box contains the text "Looking for more information on K-12 Services?" and a list of links: "Assessments", "Prof. Development", and "Instruction". To the right, a blue banner reads "Welcome! Please sign into homeroom below:". Below this, a message states: "If you are a current subscriber, please enter your username and password below, then click Sign In." There are two input fields: "Username:" with the text "grobertson11" and "Password:" with masked characters. A "Sign In" button is located below the password field.

2. Facilitators: Create a Class

Setting Up Your First Class

Whether you are using the Tutorial with a small number of students or with several of your classes, you must first group your students. This will help you with your overall management of the Tutorial.

From your homepage, click **Get Started!** or **Click here to set up your first class**



The screenshot shows the Project Graduation homepage for Virginia SOL Algebra Tutorial. At the top, the Princeton Review logo is on the left, the title "Project Graduation Virginia SOL Algebra Tutorial" is in the center, and "Sign Out" is on the right. Below the title, the date "Tuesday, November 09, 2004" is displayed. A "Help" button is in the top right corner. The main content area has a blue header with "Homepage" and "Hello, Gordon R.!". Below this, a section titled "Your Classes" with a chair icon contains a table with columns "Class Name" and "Grade". A large "GET STARTED!" button is prominently displayed, with a link "Click here to set up your first class" below it. At the bottom, there is a link "Click here to create a new class" and a note: "To create new student accounts please email VATutorial@review.com". On the left side, there is a sidebar with a user profile for "grobertson11 VA ALGEBRA DEMO SCHOOL 1" and sections for "My Account" (with links to Mailbox, Profile, Support, and Live Help Chat) and "Professional Resources" (with links to Weblinks and Test-Taking Strategies).

On the next page, you'll need to **name your class**. We recommend the following naming convention: Teacher Last Name – Period/Section “x” (i.e., Jones – Period 2).

The naming convention is particularly important if you are using the Tutorial with several groups of students. So, for example, Mr. Robertson, who wants to use the Tutorial with students in three classes, will name his first class *Robertson – Period 2*. Subsequent classes might be named, *Robertson – Period 3*, and *Robertson – Period 4*.

The screenshot displays the 'Project Graduation Virginia SOL Algebra Tutorial' interface. At the top, there's a header with 'The Princeton Review' logo, 'Project Graduation Virginia SOL Algebra Tutorial' title, and a 'Sign Out' link. The date 'Friday, November 12, 2004' is shown. Below the header, a navigation bar includes links like 'Homepage', 'Class Mainpage', 'Class Settings & Roster', 'Create & Review Assignments', 'Your Reports', and 'Skill Resources'. The main content area is titled 'Class Settings' for 'Robertson - Period 1'. It features a 'Class Name' field with the text 'Robertson - Period 1', a 'State Standard' field with 'Virginia Mathematics Standards of Learning - Algebra I', a 'Test' field with 'VA Algebra I Test Standard', and 'Achievement Levels' with color-coded indicators for 85% (green circle), 70% (yellow triangle), and 50% (red square). Navigation buttons 'Back' and 'Next' are at the bottom.

A word about **State** and **Test Standards**:

All of the content in the Tutorial is aligned to both the **Virginia SOL End of Course Algebra I Standards** and the **Virginia SOL End of Course Algebra I Test**. This means that all Tutorial items are written in the format and idiom of the actual SOL exam.

Achievement Levels:

VA DOE has set the bar high so that your students are well prepared for the SOL. A student must attain an 85% or above to be considered advanced, a 70% or above to be considered proficient. Any score below 70% means the student will be ill-prepared to take the SOL.

Once you have named your class, click **Next**. On the next page, you'll be asked to confirm your class name. If you need to change the name, click **Edit** to make any changes. Once you are satisfied with your class name, click **Confirm**.

Now, it's time to **find your students!!**

All registered students in your school should appear in the left-hand box. Click on a student name to highlight that student and then use the **Add** button to move that student into your class (right box).

Add/Remove Student

When you see the names of students you'd like to move into or out of the class, highlight the names and use the buttons. Use the drop-down menu to view a specific group of students in the left box. If you do not see a student you may need to create a new student account. To create new student accounts please email VATutorial@review.c

You have 6 students in this class. For optimal use, please limit your class size to 40 students.

Choose students to view:

Students in the school (selected) Go

Students in the school
Students in Grade 9
Students in Grade 10
Students in Grade 11
Students in Grade 12

Student Casey (11)
Student Dennis (12)
Student Eric (12)
Student Frankie (10)
Student Greg (12)
Student Heather (11)
Student Ian (12)
Student Janis (10)
Student Kelly (12)
Student Lisa (11)
Student Michelle (12)
Student Neil (12)
Student Oscar (11)

Add All >>
Add >
< Remove
<< Remove All

Roster for Robertson - Period 1

Submit

TIP: If your school has registered both juniors and seniors, and you are only working with seniors, use the drop down menu to find **Students in Grade 12**.

Once you have located all of your students, click **Submit**.

Add/Remove Student

When you see the names of students you'd like to move into or out of the class, highlight the names and use the buttons. Use the drop-down menu to view a specific group of students in the left box. If you do not see a student you may need to create a new student account. To create new student accounts please email VATutorial@review.c

You have 0 students in this class. For optimal use, please limit your class size to 40 students.

Choose students to view:

Students in Grade 12 (selected) Go

Students in Grade 12

Student Billy (12)
Student Dennis (12)
Student Eric (12)
Student Greg (12)
Student Ian (12)
Student Kelly (12)
Student Michelle (12)
Student Neil (12)
Student Quincy (12)
Student Samantha (12)
Student Victor (12)
Student Xena (12)
Student Zach (12)

Add All >>
Add >
< Remove
<< Remove All

Roster for Robertson - Period 1

Student Kelly (12)
Student Samantha (12)
Student Michelle (12)
Student Ian (12)
Student Billy (12)
Student Zach (12)

Submit

Congratulations! You have just created your first class. You should now see your students listed on the **Class Roster** page.

This class is: **Robertson - Period 1**

Navigation: [Go](#) [Help](#)

Class Mainpage: [Homepage](#) [Class Mainpage](#) [Class Settings & Roster](#) [Create & Review Assignments](#) [Your Reports](#) [Skill Resources](#)

Class Roster: [ROSTER](#) [ADD/REMOVE TEACHER](#) [ADD/REMOVE STUDENT](#) [CLASS SETTINGS](#)

Class Roster

Below is a list of all the teachers and students in **Robertson - Period 1**.

Students

[Click here to add or remove students from this class](#)

To create new student accounts please email VATutorial@review.com

[Click here to print out the passwords and usernames of these students](#)

Last, First Name	Username	Date Of Last Use
Student, Billy	BStudent68	11/9/2004 12:35:41 PM
Student, Ian	IStudent43	11/9/2004 12:35:42 PM
Student, Kelly	KStudent50	11/9/2004 12:35:40 PM
Student, Michelle	MStudent183	11/9/2004 12:35:42 PM
Student, Samantha	SStudent201	11/9/2004 12:35:40 PM
Student, Zach	ZStudent32	11/9/2004 12:35:40 PM

If you need to create additional classes, simply go back to your **Homepage** (look for the **Homepage** tab at the top of every page), **Click here to create a new class** and go thru the class creation process again.

**Please note: if you do not see one of your students listed or you wish to add more students, please contact VATutorial@review.com.

3. Facilitators: Assign the diagnostic pre-test

All students should begin the Tutorial by taking the full-length, diagnostic SOL Algebra practice test. This is the first step in determining where your students need additional help.

From your **Class Mainpage**, click on the **Benchmark Test** icon.

This class is: **Robertson - Period 1**

Navigation: [Go](#) [Help](#)

Class Mainpage: [Homepage](#) [Class Mainpage](#) [Class Settings & Roster](#) [Create & Review Assignments](#) [Your Reports](#) [Skill Resources](#)

Class Mainpage

Robertson - Period 1

[Assign an Activity](#) [Benchmark Test](#)

Your Reports

[See all reports](#)

[Student, Billy](#)
[Student, Ian](#)
[Student, Kelly](#)
[Student, Michelle](#)
[Student, Samantha](#)
[Student, Zach](#)

On the next page, click on the drop down menu to select the **VA Algebra I Pre-test**. Then click **Go**.

This class is: **Robertson - Period 1** Select A Class... Go Help

Benchmark Test

Select a benchmark test from the drop-down menu and press Go. The details of the test will appear. v benchmark you would like to assign, click Next.

To re-assign the VA SOL Tutorial Post-Test, please email: helpme@review.com

Choose a benchmark test from the drop-down menu:

Select a benchmark test Go

- Select a benchmark test
- VA Algebra I Pre-test
- VA Algebra I - Unit 1 Pre-test
- VA Algebra I - Unit 2 Pre-test
- VA Algebra I - Unit 3 Pre-test
- VA Algebra I - Unit 4 Pre-test
- VA Algebra I - Unit 5 Pre-test
- VA Algebra I - Unit 6 Pre-test
- VA Algebra I - Unit 7 Pre-test
- VA Algebra I - Unit 8 Pre-test
- VA Algebra I - Unit 9 Pre-test

The page will reload with test details. Click **Next**.

Benchmark Test

Select a benchmark test from the drop-down menu and press Go. The details of the test will appear. v benchmark you would like to assign, click Next.

To re-assign the VA SOL Tutorial Post-Test, please email: helpme@review.com

Choose a benchmark test from the drop-down menu:

VA Algebra I Pre-test Go

Name of Test: VA Algebra I Pre-test
State standard: Virginia Mathematics Standards of Learning - Algebra I
Test standard: VA Algebra I Test Standard

Back Next

The test should be administered **online** in order to receive the most immediate results. If absolutely necessary, you may administer the test **on paper**, however, you or your students will still need to enter student answers online in order to access performance reports. Please see the Appendix for further offline test instructions.

Let's continue to assign this test online. Click **Next**.

grobertson11
VA ALGEBRA DEMO
SCHOOL 1

[My Account](#)
• [Your Mailbox](#)
• [Your Profile](#)
• [Support](#)
• [Live Help Chat](#)

[Professional Resources](#)
• [Weblinks](#)

This class is:
Robertson - Period 1

Select A Class... [Go](#) [Help](#)

[Homepage](#)
[Class Mainpage](#)
[Class Settings & Roster](#)
[Create & Review Assignments](#)
[Your Reports](#)
[Skill Resources](#)

[REVIEW ALL ASSIGNMENTS](#)
[STORED ASSIGNMENTS](#)
[ASSIGN AN ACTIVITY](#)
[BENCHMARK TEST](#)

[Back](#)
[Next](#)

Choose a **due date** by clicking on the desired date in the calendar. Note: the default due date is one week from the date you assign the test.

[Your Profile](#)
• [Support](#)
• [Live Help Chat](#)

[Professional Resources](#)
• [Weblinks](#)
• [Test-Taking Strategies](#)
[Grades 9 - 12](#)
• [About VA State Tests](#)

[Program Materials](#)
• [Facilitator/Teacher Guide](#)
• [Unit Plan](#)
• [Teacher Quick Guide](#)
• [Student Quick Guide](#)
• [VA DOE Copyright](#)

1. Due Date:

11/17/2004

November, 2004						
«	Sun	Mon	Tue	Wed	Thr	Fri
		1	2	3	4	5
	6	7	8	9	10	11
	12	13	14	15	16	17
	18	19	20	21	22	23
	24	25	26	27	28	29
	30					

2. Assignees:

Unassigned

Assigned

Student, Billy
Student, Ian
Student, Kelly
Student, Michelle
Student, Samantha
Student, Zach

[Add All >>](#)
[Add >](#)
[< Remove](#)
[<< Remove All](#)

[Back](#)
[Next](#)

Make sure all of your students' names appear in the right box (**Assignees**). Click **Next**.

From the **Confirm Details** page, you will likely want to ...

The screenshot shows the 'Assign a Test' page with the following details:

- Class:** Robertson - Period 1
- Test Type:** Benchmark Test: VA Algebra I Pre-test
- Number of Questions:** 50
- Online/On Paper:** online
- Due Date:** 11/17/2004
- Assignees:** Student, Billy; Student, Ian; Student, Kelly; Student, Michelle; Student, Samantha; Student, Zach

On the right, the **Test Options** sidebar includes links for [Confirm & Assign](#), [Edit Details](#), [Edit Due Date & Assignees](#), [Preview Teacher Version](#), and [Delete Assignment](#).

Click **Preview Teacher Version** to view the pre-test in its entirety. (Shhh.... This is your answer key!)

Most importantly, don't forget to **Confirm and Assign**. Once you have assigned the pre-test, it will appear on your **Class Mainpage**.

The screenshot shows the 'Class Mainpage' for Robertson - Period 1. It features a 'Pending Assignments' table and a 'Your Reports' sidebar.

Type	Name	Due Date	Students Completed
BENCH.	VA Algebra I Pre-test	11/17/2004	0/6

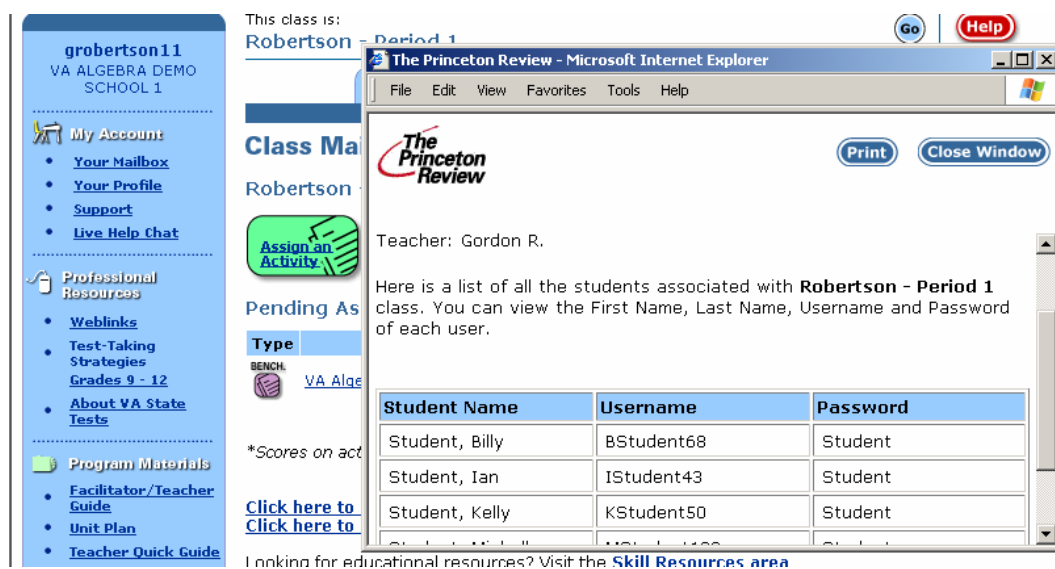
The **Your Reports** sidebar lists the following students: Student, Billy; Student, Ian; Student, Kelly; Student, Michelle; Student, Samantha; Student, Zach.

4. Facilitators: Prepare your students to take the pre-test

The results of the diagnostic pre-test are key in helping you to guide your instruction. We recommend that the pre-test is completed in one 90 minute sitting, simulating a test-like situation.

Before you hand out student usernames and passwords, make sure that all of your students' computers are set to the login page (www.ac.princetonreview.com). This will literally get everyone on the same page and allow for simultaneous login.

You'll find your students' usernames/passwords by clicking on **View/Print Usernames and Passwords** from your **Class Mainpage**.



This class is: **Robertson - Period 1**

Class Mainpage

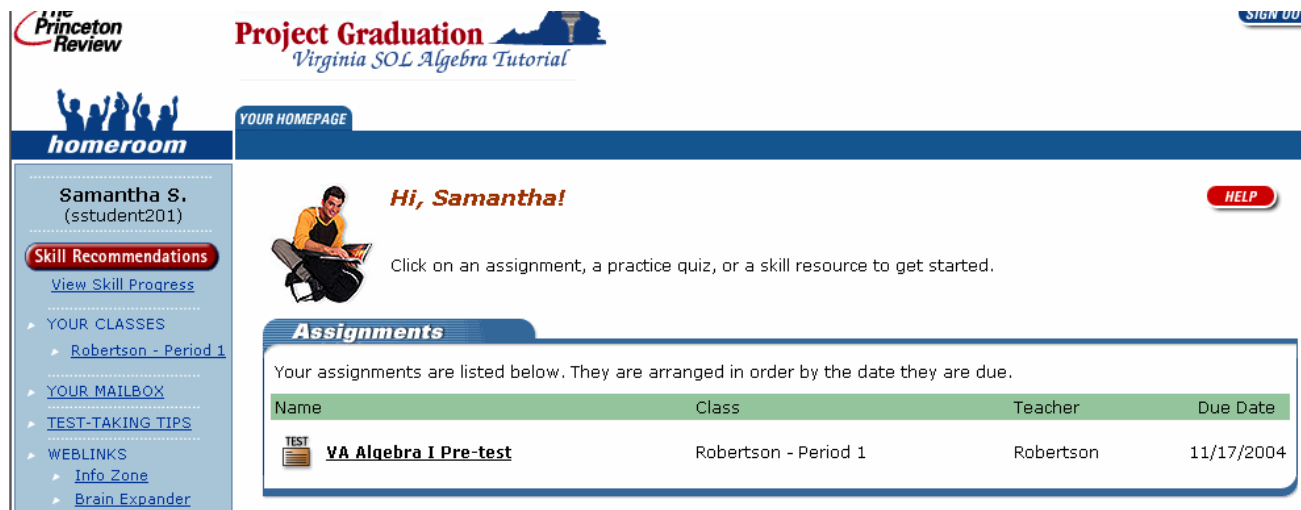
Teacher: Gordon R.

Here is a list of all the students associated with **Robertson - Period 1** class. You can view the First Name, Last Name, Username and Password of each user.

Student Name	Username	Password
Student, Billy	BStudent68	Student
Student, Ian	IStudent43	Student
Student, Kelly	KStudent50	Student

5. Students: Sign in and take the pre-test

Students will sign in to the Tutorial just as facilitators do, by going to www.ac.princetonreview.com entering in a **username** and **password** and clicking **Sign In**. Once the student signs in, she will arrive on her homepage.



Project Graduation
Virginia SOL Algebra Tutorial

YOUR HOMEPAGE

Hi, **Samantha!**

Click on an assignment, a practice quiz, or a skill resource to get started.

Assignments

Your assignments are listed below. They are arranged in order by the date they are due.

Name	Class	Teacher	Due Date
VA Algebra I Pre-test	Robertson - Period 1	Robertson	11/17/2004

Instruct the student(s) to click on the test name.

On the next screen, the student should review the online test instructions. When she is ready, she should click **Begin Test**.


The screenshot shows the 'Virginia SOL Algebra Tutorial' interface. On the left is a sidebar with the 'homeroom' logo and user information for Samantha S. (sstudent201). The sidebar includes links for Skill Recommendations, View Skill Progress, YOUR CLASSES (Robertson - Period 1), YOUR MAILBOX, TEST-TAKING TIPS, and WEBLINKS. The main content area has a navigation bar with links: YOUR HOMEPAGE, CLASS MAINPAGE, ASSIGNMENTS, PRACTICE QUIZZES, PROGRESS REPORTS, and SKILL RESOURCES. Below this, it displays 'MATH' and 'Robertson - Period 1 Ms. Robertson'. The title 'Online Test Instructions' is prominently shown. Below the title, it states: 'Name of Test: VA Algebra I Pre-test', 'Due Date: 11/17/2004', and 'Number of Questions: 50'. A paragraph of instructions follows: 'You will be shown test questions one at a time. You may want to have a pencil and some scrap paper. If you leave a question blank and come back to it later, click Skip Question. Good luck!'. At the bottom of the instructions is a blue button labeled 'BEGIN TEST'.

The test will appear full screen, one question at a time. The student should select an answer from the four choices presented and click **Submit** at the bottom of the screen.

The screenshot shows the test interface. At the top, there is a header with 'The Princeton Review' logo on the left, 'Test Name' and 'Class and Teacher' fields in the center, and a 'HELP' button on the right. The 'Test Name' field contains 'VA Algebra I Pre-test' and the 'Class and Teacher' field contains 'Robertson - Period 1 with Robertson'. Below the header, the question is displayed: 'Question 1 of 50' on the left and 'Question ID# 239569' on the right. The question text is: 'Which property of real numbers is utilized by rewriting $11x + 5xy$ as $x(11 + 5y)$?' Below the question are four multiple-choice options, each with a radio button: A. Associative property for addition, B. Commutative property for addition, C. Closure property for multiplication, and D. Distributive property for multiplication over addition. Option D is selected. At the bottom of the screen is a blue navigation bar with five buttons: 'Finish Test', 'Pause Test' (with a clock icon), 'Answer Sheet', 'Submit Answer' (with a right arrow icon), and 'Skip Question' (with a curved arrow icon).

If the student is unsure about a particular question, she may click **Skip Question** as she will later be able to return to the question.

If the student wants to review her answers at any time, she may click on the **Answer Sheet** button. A pop-up window will appear with the student's answer choices up to this point. The student can change an answer simply by clicking on an individual question link.




Test Name
 VA Algebra I Pre-test

Class and Teacher
 Robertson - Period 1 with Robertson

Question 5 of 50
Q

Which graph best represents the function $y = -\frac{4}{3}x + 2$?

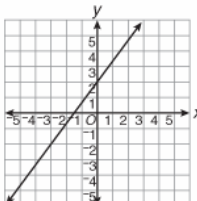

CLOSE WINDOW

Answer Sheet

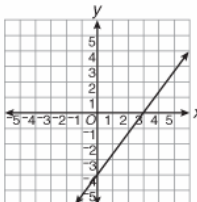
Click on a question to change your answer.

Question 1	D
Question 2	C
Question 3	C
Question 4	A
Question 5	
Question 6	
Question 7	
Question 8	
Question 9	
Question 10	
Question 11	
Question 12	
Question 13	
Question 14	
Question 15	

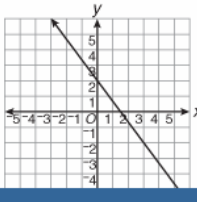
A



B



C




Finish
Pause Test
Answer
Submit

The **Pause Test** button should only be used in cases when a student is unable to finish the test in the designated time period. When this button has been clicked, all answers chosen are saved in the system and the student may return to the test at a later date.

When the student has answered all questions on the pre-test, she will click **Finish Test**. On this screen, the student will have one more chance to review all answer choices and/or **Return to Test**.



When the student clicks **Grade this Test**, an hour glass will appear for a few seconds while the system grades the pre-test.

	<p><u>Test Name</u></p> <p>VA Algebra I Pre-test</p>	<p><u>Class and Teacher</u></p> <p>Robertson - Period 1 with Robertson</p>
---	---	---

Now is your chance to go over your answers before this test is graded. To change an answer, click on the question number. To go over the whole test, click Return to Test. This will take you through the test one question at a time. IMPORTANT: Any questions that are not answered will be counted as incorrect!

When you have done the best you can and you are ready to have this test graded, click Grade This Test.

Question 1	D
Question 2	C
Question 3	C
Question 4	A
Question 5	C
Question 6	C
Question 7	D
Question 8	C
Question 9	A
Question 10	C
Question 11	B
Question 12	A
Question 13	D
Question 14	C
Question 15	D
Question 16	C
Question 17	B
Question 18	B
Question 19	C
Question 20	C
Question 21	C
Question 22	C
Question 23	B
Question 24	A
Question 25	D

6. Students: View pre-test results

After the student has clicked **Grade This Test**, she will immediately be able to see how she did.

The **Test Results** page will show the student her **overall score**, and the **individual score on each tested skill**.

Samantha S.
(sstudent201)

Skill Recommendations

[View Skill Progress](#)

YOUR CLASSES

Robertson - Period 1

YOUR MAILBOX

TEST-TAKING TIPS

WEBLINKS

[Info Zone](#)

[Brain Expander](#)

[Made by Kids](#)

[World Adventure](#)

YOUR ACCOUNT

[VA DOE COPYRIGHT](#)

Student Quick Guide

MATH

Robertson - Period 1
Ms. Robertson

HELP

Test Results

Test Name: VA Algebra I Pre-test
Test Completed: 11/10/2004

Score:

42%

View All Questions & Answers

Key:

■ **Keep Trying!** 0%-69%

▲ **Good Job!** 70%-84%

● **Excellent!** 85%-100%

Skill	Score	Questions
	Total: ■ 42%	50 (View)
Square Roots [Resources]	● 100%	1
Formulating Equations and Inequalities From Information in Word/ Story Problems [Resources]	● 100%	1
Mean, Median, Mode and Range [Resources]	■ 33%	3
Factoring Polynomials [Resources]	■ 0%	2
Expanding Polynomials by Multiplying [Resources]	■ 0%	2
Solving Single-variable Linear Equations [Resources]	● 100%	2
Solving Simultaneous Linear Equations in Two Variables Using Substitution or Elimination [Resources]	● 100%	1
Using Graphing to Solve Simultaneous Linear Equations in Two Variables [Resources]	● 100%	1

It is recommended that facilitators instruct students to review the pre-test by clicking on **View All Questions & Answers**. Here students will be able to view their responses as well as the correct response for each question.

Question 13

Question ID# 239573

The equation of the line that contains the points $(-8, 1)$ and $(0, -5)$ is –

- ☐ A $y = \frac{3}{4}x + 7$
- ☐ B $y = \frac{1}{2}x + 1$
- ☒ C $y = -\frac{3}{4}x - 5$
- ☐ D $y = -\frac{3}{4}x + 7$

Question 14

Question ID# 239574

$$\begin{cases} x + y = 4 \\ x - y = 2 \end{cases}$$

Which is the solution to the system of equations shown?

- ☐ A $x = 1, y = 3$
- ☐ B $x = 2, y = 2$
- ☒ C $x = 3, y = 1$
- ☐ D $x = 4, y = 0$

7. Students: Access resources / practice quizzes

Students may click on **Skill Helpers** and find a variety of remediation resources (i.e., worksheets, web activities).

Skill Recommendations

[View Skill Progress](#)

YOUR CLASS

▶ [Robertson - Period 1](#)

YOUR MAILBOX

[TEST-TAKING TIPS](#)

WEB LINKS

▶ [Info Zone](#)

▶ [Brain Expander](#)

▶ [Made by Kids](#)

▶ [World Adventure](#)

YOUR ACCOUNT

[VA DOE COPYRIGHT](#)

[Student Quick Guide](#)

Skill Resources

SKILL **Mean, Median, Mode and Range** - Given a set of data, understand and determine the mean / average, median, mode and range of the data

Skill Progress:

33% ■ **Keep Trying**

Learn More!

The Princeton Review's Worksheet on Practicing Mean, Mode, Median, and Range
[Read More](#)

Student Guide to the Texas Instruments Graphing Calculator
[Read More](#)

The Princeton Review's Student Lesson on Mean, Median, Mode, and Range
[Read More](#)

The Princeton Review's Student Lesson on Mean, Median, Mode, and Range (Spanish Version)
[Read More](#)

Student Lesson on Central Tendency: Mean, Median and Mode
[Read More](#)

Student Lesson on Box-and-Whisker Graphs & Range
[Read More](#)

Student Lesson on Comparing and Contrasting Central Tendency
[Read More](#)

Other Resources:

Mrs. Glosser's Math Goodies' Introduction to Statistics
 This set of lessons covers the mean, median, mode and range of sets of data. It illustrates each with examples and provides a set of 10 "challenge exercises" that can serve as a quiz of the covered concepts.

Project Interactive's Sample Problems on Mean, Median, and Mode

Students may also hone in on an individual skill by clicking **Quiz Yourself on This Skill** from any skill resources page. The practice quizzes are usually about five questions long and are visually presented in the same way as the pre-test / unit quizzes (full screen, one question at a time).

Students may also monitor their own progress by clicking the red **Skill Recommendations** button on the left nav. This page lists any skill for which the student has scored below 80%. When a student cumulatively achieves greater than 80% on any given skill (via unit tests and/or practice quizzes), the system will remove this skill from the Skill Recommendations page.

Skill Recommendations

[View Skill Progress](#)

▶ YOUR CLASSES

▶ [Robertson - Period 1](#)

▶ YOUR MAILBOX

▶ [TEST-TAKING TIPS](#)

▶ WEBLINKS

▶ [Info Zone](#)

▶ [Brain Expander](#)

▶ [Made by Kids](#)

▶ [World Adventure](#)

▶ YOUR ACCOUNT

▶ [VA DOE COPYRIGHT](#)

[Student Quick Guide](#)

Skill Recommendations

Based on your pre-test results, it is recommended that you practice the skills listed below. Click on a **Skill Resources** link for further practice on that skill.

Skills to Practice	
Mean, Median, Mode and Range Related SOL	Skill Resources
Factoring Polynomials Related SOL	Skill Resources
Expanding Polynomials by Multiplying Related SOL	Skill Resources
Using Formulas and Functions to Generate Groups of Related Numbers; Evaluating Algebraic Expressions Related SOL	Skill Resources
Creating a Formula or Function that will Yield a Given Set of Numbers Related SOL	Skill Resources
Equations of Lines and their Graphs Related SOL	Skill Resources
A Numerical Understanding of Slope Related SOL	Skill Resources
Properties of Numbers Related SOL	Skill Resources
Using Scientific Notation Related SOL	Skill Resources
Solving and Graphing Inequalities in One Variable Related SOL	Skill Resources

8. Facilitators: View individual student performance on the pre-test

Once your students have taken the pre-test, you'll immediately be able to see how they fared. After signing in to your teacher account, click on the name of your class. From your **Class Mainpage**, click on **VA Algebra I Pre-test**.

This class is: Robertson - Period 1

Navigation: Go Help

Class Mainpage: Homepage Class Mainpage Class Settings & Roster Create & Review Assignments Your Reports Skill Resources

Class Mainpage

Robertson - Period 1

Assign an Activity Benchmark Test

Pending Assignments

Type	Name	Due Date	Students Completed
BENCH	VA Algebra I Pre-test	11/17/2004	1/6

Your Reports

[See all reports](#)

[Student, Billy](#)
[Student, Ian](#)
[Student, Kelly](#)
[Student, Michelle](#)
[Student, Samantha](#)
[Student, Zach](#)

To create new student accounts please email VATutorial@review.com

From the **Review an Existing Test** page, you will see each student's overall score. For those students who have been *assigned* but have not yet *taken* the pre-test, a dash "----" will appear in both the **Date Completed** and **Student Score** columns.

Navigation: Mainpage Assignments Reports Resources

REVIEW ALL ASSIGNMENTS STORED ASSIGNMENTS ASSIGN AN ACTIVITY BENCHMARK TEST

Review an Existing Test

Below are the details of the test you just created. Please review the information, then choose from among the options listed in the test options box on the right side of this screen.

Please note: Students have either completed, or started and paused, this assignment. You are therefore only able to edit the due date and assignees.

Benchmark Test: VA Algebra I Pre-test
Created by: c.districtadmin
Number of Questions: 50
Online/On Paper: online
Due Date: 11/17/2004

Test Options

[Edit Due Date & Assignees](#)
[View Teacher Version](#)
[Delete Assignment](#)

[Click here to view all of the students' answers on this assignment](#)

Student Name	Date Completed	Student Score	
Student, Billy	---	---	
Student, Ian	---	---	
Student, Kelly	---	---	
Student, Michelle	---	---	
Student, Samantha	11/10/2004	42%	
Student, Zach	---	---	

In order to view an **individual student's performance** on the pre-test, click on her score. This skill-based report will help you determine which skills she should focus on.

Note that the reports are structured as follows:

Reporting Category (*Expressions and Operations...*)

Unit (*Unit 1 Expressions and Square Roots...*)

SOL (*A.2 The student will represent verbal quantitative situations algebraically ...*)

Skill(s)* (*Formulating Equations and Inequalities From Information in Word / Story Problems...*)

- [Your Mailbox](#)
- [Your Profile](#)
- [Support](#)
- [Live Help Chat](#)
- [Professional Resources](#)
 - [Weblinks](#)
 - [Test-Taking Strategies Grades 9 - 12](#)
 - [About VA State Tests](#)
- [Program Materials](#)
 - [Facilitator/Teacher Guide](#)
 - [Unit Plan](#)
 - [Teacher Quick Guide](#)
 - [Student Quick Guide](#)
 - [VA DOE Copyright](#)

Student Performance

Student: Samantha Student

Assessment: VA Algebra I Pre-test

Class Average: 42%

Student Average: 42%

[Explain this Report](#)
[Printer-Friendly Format](#)

View Student's Tests

Change Student:

Select... ▼

Standard/Topic	# Questions	Class Avg.	Student Score
Expressions and Operations [Desc]	15	■ 27%	■ 27%
Unit 1 Expressions and Square Roots [Desc]	6	50%	50%
A.2 The student will represent verbal quantitative ... [Desc / Skill Breakdown]	5	40%	40%
A.13 The student will express the square root of a w... [Desc / Skill Breakdown]	1	100%	100%
Unit 2 Exponents, Binomials and Trinomials [Desc]	6	17%	17%
A.10 The student will apply the laws of exponents to... [Desc / Skill Breakdown]	3	0%	0%

*In order to view the skill that relates to a particular SOL, click on **Skill Breakdown**. In the example below, Samantha has scored a 25% on the 4 questions aligned to *Using Formulas and Functions to Generate Groups*. This page allows you to review each of those questions as well as Samantha's answer choices.

- [Your Mailbox](#)
- [Your Profile](#)
- [Support](#)
- [Live Help Chat](#)
- [Professional Resources](#)
 - [Weblinks](#)
 - [Test-Taking Strategies Grades 9 - 12](#)
 - [About VA State Tests](#)
- [Program Materials](#)
 - [Facilitator/Teacher Guide](#)
 - [Unit Plan](#)
 - [Teacher Quick Guide](#)
 - [Student Quick Guide](#)
 - [VA DOE Copyright](#)

Student Performance

Student: Samantha Student

Assessment: VA Algebra I Pre-test

Class Average: 42%

Student Average: 42%

[Explain this Report](#)
[Printer-Friendly Format](#)

[Back](#)

Topics/Skills	# Questions	Class Avg.	Student Score
A.2 The student will represent verbal quantitative ... [Desc]	5	■ 40%	■ 40%
<i>Formulating Equations and Inequalities From Inf...</i> [Resources]	1	100%	100%
<i>Using Formulas and Functions to Generate Groups...</i> [Resources]	4	25%	25%

Question 19 Question ID# 239579

What is the value of $3x^2 - y^2$ if $x = -1$ and $y = 3$?

☐ A 12
☐ B -3
☒ C -6

Naturally, you'd want Samantha to brush up on formulas and functions, since she doesn't appear to have a good grasp of the concept. By clicking on **Resources**, next to the skill name, you will have a variety of resources to choose from....

9. Facilitators: Assign Resources

Remember that each skill tested on the SOL has its own dedicated resource page.

Teacher Tips are short activities that are directed to a variety of learning styles. Some require common classroom supplies, others require manipulatives. These mini-lessons can be used with the entire class or with small groups of students.

Web links connect to hand-picked educational sites with grade-appropriate lesson plans, worksheets, question-and-answer pages, and projects.

- [Your Mailbox](#)
- [Your Profile](#)
- [Support](#)
- [Live Help Chat](#)

- [Professional Resources](#)
- [Weblinks](#)
- [Test-Taking Strategies](#)
- [Grades 9 - 12](#)
- [About VA State Tests](#)

- [Program Materials](#)
- [Facilitator/Teacher Guide](#)
- [Unit Plan](#)
- [Teacher Quick Guide](#)
- [Student Quick Guide](#)
- [VA DOE Copyright](#)

Skill Resources

TEACHER VIEW

[Back to Previous Screen](#)

Skill: Using Formulas and Functions to Generate Groups of Related Numbers; Evaluating Algebraic Expressions

Use formulas and functions to generate a group of related numbers. This includes evaluating an algebraic expression by substituting ("plugging in") a given number for a variable.

Strand: Expressions and Operations
Relations and Functions

You can also check out the [parent view](#) and [student view](#) of these skill resources.

The Princeton Review Lessons & Tips

Teacher Tips
The Princeton Review's Teacher Guide to Student Lesson on Evaluating Algebraic Expressions
[View](#)

In-Class Activity on Using Formulas and Functions to Generate Groups of Related Numbers: Creating Equations
[View](#)

Teacher Guide to Lesson on Finding the Values of $f(x)$ and the Zeros of a Function
[View](#)

The Princeton Review's Answer Worksheet on Evaluating Algebraic Expressions
[View](#)

Parent Tips
At-Home Activity for Using Formulas and Functions to Generate Groups of Unrelated Numbers: Express Yourself
[View](#)

The Princeton Review's Parent Guide to Student Lesson on Evaluating Algebraic Expressions

Teaching Resources

Recommended Resources
[Understanding Algebra By James W. Brennan Lesson on Simplifying Algebraic Expressions](#)
This lesson specifically deals with simplifying algebraic expressions and offers excellent examples. It is part of a series of lessons.

[A Lesson on Understanding Algebra By James W. Brennan: Specifically on Multiplication Principle](#)
This is a lesson on the multiplication principle of algebraic expressions.

[Understanding Algebra By James W. Brennan Lesson on Solutions of Algebraic Equations](#)
This lesson is part of a series of lessons on algebraic expression. It deals with finding solutions of Algebraic expressions.

[Understanding Algebra By James W. Brennan](#)
James Brennan writes explanation of algebraic expressions.

[Understanding Algebra By James W. Brennan Lesson on](#)

From a Skill Resource page, you can easily assign **Student Lessons**. Review the lesson or worksheet first by clicking on **View Lesson**.

When you have reviewed the lesson and have determined that it is appropriate for your student(s), click **Close** to get back to the skill resource page.

 **Lesson**  [CLOSE](#) [Print this Page](#)



Here are good ideas for helping students understand this skill!

The text highlighted in blue and underlined leads to links that may be helpful for this lesson.

Skill

 **Functions vs. Relations**

What this skill will help you accomplish:

The following examples will help students practice and review

- determining whether a [set of numbers represents a function](#)
- understanding how inputs and outputs are related
- using formulas to determine outputs

Need to Know

Click the **Assign This** link, under the chosen lesson.

Student Lessons
The Princeton Review's Student Lesson on Evaluating Algebraic Expressions (Spanish version)
[Assign This](#) | [View](#)

The Princeton Review's Student Lesson on Evaluating Algebraic Expressions
[Assign This](#) | [View](#)

The Princeton Review's Worksheet on Evaluating Algebraic Expressions
[Assign This](#) | [View](#)

Functions and Relations: What's the Difference and How do I Know?
[Assign This](#) | [View](#)

This lesson on the Addition Principle is part of a series: Lesson on algebraic expressions.

The next screen will ask you to **type in some instructions** for your student and **enter in a name for the activity**.

Assign an Activity

More Ideas
Check out these areas:
[Skill Resources](#)
[Your Weblinks](#)

NOTE: Scores on activities do not affect student progress reports.

In the space below, enter instructions for the student to follow:
Let's go over this lesson together.

Enter a name for this activity:

Enter a URL to associate with this assignment (optional):

When would you like to assign this activity?
☒ Assign now
☐ Store & assign later

[Back](#) [Next](#)

Please note that all Princeton Review Lessons will have a corresponding **url** (web address). No need to change anything here!

You will most likely want to **assign the worksheet or lesson right away**. You may also **store it for later**.

Click **Next**.

You've seen this next screen before...

Assign an Activity

1. Due Date:

November, 2004						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

2. Assignees:

Unassigned

Student, Billy
Student, Ian
Student, Kelly
Student, Michelle
Student, Zach

[Add All >>](#)
[Add >](#)

Assigned

Student, Samantha

Select a **due date**. Decide **which student(s)** should complete the assignment. Click **Next**.

Be sure to **Confirm & Assign** the activity on the next page and you're done! When your students next log in, they'll know they have an assignment to complete.

SCHOOL 1

Homepage | Class Mainpage | Class Settings & Roster | Create & Review Assignments | Your Reports | Skill Resources

REVIEW ALL ASSIGNMENTS | STORED ASSIGNMENTS | ASSIGN AN ACTIVITY | BENCHMARK TEST

Assign an Activity

Below are the details of the assignment you have just created. Please look over the information to see that it is correct, then choose from the options listed on the right side of the screen.

Instructions: Let's go over this lesson together.

URL: <http://student.homeroom.com/Lessons/templates/stratum3/lessons.asp?op=student/math/9/920/index.html>

Due Date: 11/23/2004

Assignees: Student, Samantha

Confirm & Assign

Test Options

Confirm & Assign

[Edit Details](#)

[Edit Due Date & Assignees](#)

[Delete Assignment](#)

My Account

- [Your Mailbox](#)
- [Your Profile](#)
- [Support](#)
- [Live Help Chat](#)

Professional Resources

- [Weblinks](#)
- [Test-Taking Strategies](#)
- [Grades 9 - 12](#)
- [About VA State Tests](#)

Program Materials

10. Facilitators: Re-assess, Re-analyze, Re-teach (aka: Wash, Rinse, Repeat...)

After you have re-taught key concepts, you'll naturally want to re-assess student mastery of these concepts. After you have done the first round of **assess** (pre-test), **analyze** (view test results) and **re-teach** (assign resources), you'll likely want to assign one of the unit pre-tests which covers the skill(s) you just covered with your student(s).

Let's look at Samantha again. Remember that she needed a lot of help understanding the concept of **functions and relations**. By looking at the Tutorial Unit Plan (see Appendix) Mr. Robertson knows that functions and relations is covered in **Unit 1**. After going over the functions and relations lesson with Samantha, Mr. Robertson assigns the **Unit 1 Pre-test**.

You can assign unit tests in the same way you assigned the full-length pre-test, by clicking on the **Benchmark Test** icon from your **Class Mainpage**. Choose the appropriate unit pre/post test, choose a due date, assign the test to the appropriate student(s), and you're all set!

After your student(s) take a test, you should again examine individual test performance. You can also start to look at **overall skill performance** for each student as you accumulate more data.

TIP: The **skill based results** and **question details** (item analysis) reports for an individual assignment are particularly helpful if you are able to work with your students as a group. These reports will enable you to determine if your students truly aren't understanding a concept or if certain questions are just plain tricky!!

Help and Information

For technical assistance:

- Call The Princeton Review Customer Support Hotline – 1-800-778-7737
- Email The Princeton Review at helpme@review.com
- Access Live Chat from your facilitator account: 12-3pm, Mon – Fri

For questions regarding eligibility and additional training:

- Contact Deborah Bliss, Secondary Mathematics Specialist, Virginia Department of Education (804-786-6418, Deborah.Bliss@doe.virginia.gov)

For general questions regarding the Tutorial:

- Contact Renee Vogel, Account Manager, The Princeton Review (1-800-738-4392, x 1237, renee.v@review.com)

Appendix

Virginia SOL Algebra Tutorial Unit Plan

The Algebra Tutorial is divided into nine instructional units. Please review the unit breakdown below for SOL / skill alignment.

*Please note that a skill may be aligned with more than one SOL (i.e., in Unit 4, *Solving and Graphing Inequalities in One Variable* is aligned to both A.1 and A.3).

REPORTING CATEGORY: Expressions and Operations

Unit 1: Expressions and Square Roots

A.2 The student will represent verbal quantitative situations algebraically and evaluate these expressions for given replacement values of the variables.

- Formulating Equations and Inequalities From Information in Word/ Story Problems
- Assigning Variables to Solve Word/Story Problems
- Using Formulas and Functions to Generate Groups of Related Numbers; Evaluating Algebraic Expressions

A.13 The student will express the square root of a whole number in simplest radical form and approximate square roots to the nearest tenth.

- Square Roots
- Calculating Square Roots of Fractions and Decimals.

Unit 2: Exponents, Binomials, and Trinomials

A.10 The student will apply the laws of exponents to perform operations on expressions with integral exponents, using scientific notation when appropriate.

- Multiplying Whole Numbers Using Exponents
- Using Scientific Notation
- Multiplying and Dividing Monomials Using Properties of Exponents

A.12 The student will factor completely first- and second-degree binomials and trinomials in one or two variables. The graphing calculator will be used as a tool for factoring and for confirming algebraic factorizations.

- Factoring Polynomials
- Factoring Polynomials Whose Terms have a Common Monomial Factor

Unit 3: Polynomials

A.11 The student will add, subtract and multiply polynomials and divide polynomials with monomial divisors, using concrete objects, pictorial and area representations and algebraic manipulations.

- Expanding Polynomials by Multiplying
- Adding and Subtracting Polynomials
- Using Negative and Zero Exponents to Simplify Monomial and Numerical Expressions
- Dividing Polynomials by Monomials

REPORTING CATEGORY: Equations and Inequalities**Unit 4: Linear Equations and Inequalities**

A.1 The student will solve multistep linear equations and inequalities in one variable, solve literal equations (formulas) for a given variable and apply these skills to solve practical problems. Graphing calculators will be used to confirm algebraic solutions.

- Solving Single-variable Linear Equations
- Solving and Graphing Inequalities in One Variable
- Dividing Polynomials by Monomials
- Literal Equations

A.3 The student will justify steps used in simplifying expressions and solving equations and inequalities. Justifications will include the use of concrete objects; pictorial representations and the properties of real numbers, equality and inequality.

- Solving Single-variable Linear Equations
- Properties of Numbers
- Solving and Graphing Inequalities in One Variable

Unit 5: Equations and Graphs

A.6 The student will select, justify and apply an appropriate technique to graph linear functions and linear inequalities in two variables. Techniques will include slope-intercept, x- and y-intercepts, graphing by transformation and the use of the graphing calculator.

- Equations of Lines and their Graphs
- Using the Graph to Determine the Equation of a Line
- Solving and Graphing Linear Inequalities in Two Variables
- Finding the x-intercept(s) and/or y-intercept(s) of a Function

A.7 The student will determine the slope of a line when given an equation of the line, the graph of the line or two points on the line. Slope will be described as rate of change and will be positive, negative, zero or undefined. The graphing calculator will be used to investigate the effect of changes in the slope on the graph of the line.

- What is Slope?
- A Numerical Understanding of Slope

A.8 The student will write an equation of a line when given the graph of the line, two points on the line or the slope and a point on the line.

- Constructing Lines - Plotting Points Using an Equation
- Using Slope and Y-intercept to Construct Lines on the XY Plane
- Using the Graph to Determine the Equation of a Line
- Number Puzzles - Finding the Missing Pieces
- Writing the Equation of a Line, Given the Slope and y-intercept
- Writing the Equation of a Line, Given the Slope and One Point
- Writing the Equation of a Line, Given the Coordinates of Two Points
- Understanding the Standard Form of a Linear Equation

Unit 6: Systems of Equations and Quadratic Equations

A.9 The student will solve systems of two linear equations in two variables both algebraically and graphically and apply these techniques to solve practical problems. Graphing calculators will be used both as a primary tool for solution and to confirm an algebraic solution.

- Solving Simultaneous Linear Equations in Two Variables Using Substitution or Elimination
- Using Graphing to Solve Simultaneous Linear Equations in Two Variables

A.14 The student will solve quadratic equations in one variable both algebraically and graphically. Graphing calculators will be used both as a primary tool in solving problems and to verify algebraic solutions.

- Solving Quadratic Equations by Factoring
- Graphing Quadratic Equations / Functions

REPORTING CATEGORY: Relations and Functions

Unit 7: Relations, Functions, Domain and Range

A.5 The student will create and use tabular, symbolic, graphical, verbal, and physical representations to analyze a given set of data for the existence of a pattern, determine the domain and range of relations, and identify the relations that are functions.

- Creating a Formula or Function that will Yield a Given Set of Numbers
- Using the Graph to Determine the Equation of a Line
- Understanding Functions
- Range and Domain

Unit 8: Values and Zeroes of Functions, Variation

A.15 The student will, given a rule, find the values of a function for elements in its domain and locate the zeros of the function both algebraically and with a graphing calculator. The value of $f(x)$ will be related to the ordinate on the graph.

- Using Formulas and Functions to Generate Groups of Related Numbers; Evaluating Algebraic Expressions
- Understanding Functions
- Range and Domain

A.18 The student will analyze a relation to determine whether a direct variation exists and represent it algebraically and graphically, if possible.

- Direct, Inverse and Joint Variation

REPORTING CATEGORY: Statistics

Unit 9: Statistics

A.4 The student will use matrices to organize and manipulate data, including matrix addition, subtraction and scalar multiplication. Data will arise from business, industrial and consumer situations.

- Adding and Subtracting Matrices
- Organize and Display Data Using Matrices
- Scalar Products

A.16 The student will, given a set of data points, write an equation for a line of best fit and use the equation to make predictions.

- Determining the Line of Best Fit

A.17 The student will compare and contrast multiple one-variable data sets, using statistical techniques that include measures of central tendency, range and box-and-whisker graphs.

- Organizing Data into Graphs and Pictures
- Reading Graphs and Charts
- Mean, Median, Mode and Range
-

On paper test administration

If you have limited access to technology and need to administer tests on paper, please read the following:

As you go thru the process of assigning a unit test, make sure you select **On paper** instead of **Online** when you come to the screen below. Then, click **Next**.

This class is: **Robertson - Period 1** [Select A Class...] [Go] [Help]

Homepage | Class Mainpage | Class Settings & Roster | Create & Review Assignments | Your Reports | Skill Resources

REVIEW ALL ASSIGNMENTS | STORED ASSIGNMENTS | ASSIGN AN ACTIVITY | BENCHMARK TEST

Benchmark Test

1. Benchmark Test: **VA Algebra I - Unit 1 Pre-test**

2. Will this test be taken online or on paper? ☐ Online ☒ On paper

[Back] [Next]

Left Sidebar:

- groberson11
VA ALGEBRA DEMO SCHOOL 1
- My Account
 - Your Mailbox
 - Your Profile
 - Support
 - Live Help Chat
- Professional Resources
 - Weblinks
 - Test-Taking

On the next page, select the due date and assign the test to the appropriate student(s). After you click **Confirm and Assign**, you'll return to your class mainpage. Note that a new **PRINT** link appears. This is where you'll find the pdf* student version of the test.

*You must have Adobe Acrobat Reader installed on your computer in order to print the student version.

Class Mainpage

Robertson - Period 1

[Assign an Activity] [Benchmark Test]

Pending Assignments

Type	Name	Due Date	Students Completed
BENCH	VA Algebra I Pre-test	11/17/2004	1/6
ACTIV	Functions and Relations	11/23/2004	0/6
BENCH	VA Algebra I - Unit 1 Pre-test PRINT	11/26/2004	0/1

Your Reports

[See all reports](#)

[Student, Billy](#)
[Student, Ian](#)
[Student, Kelly](#)
[Student, Michelle](#)
[Student, Samantha](#)
[Student, Zach](#)

To create new student accounts please email VATutorial@review.com

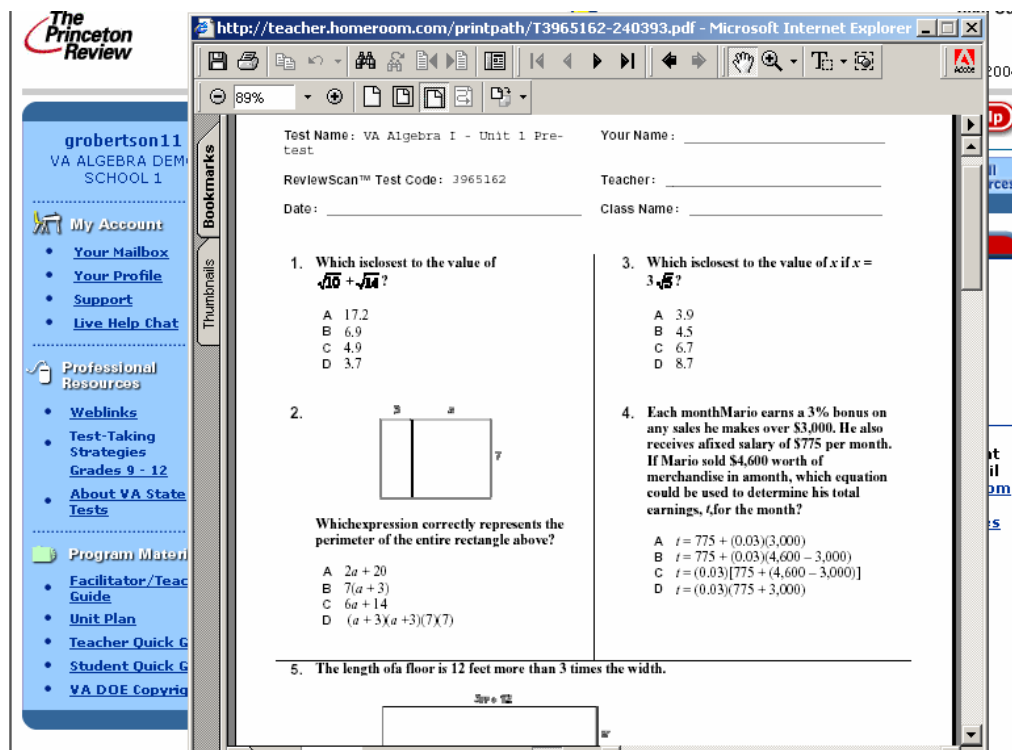
[View/Print Usernames and Passwords](#)

Left Sidebar:

- My Account
 - Your Mailbox
 - Your Profile
 - Support
 - Live Help Chat
- Professional Resources
 - Weblinks
 - Test-Taking Strategies
 - Grades 9 - 12
 - About VA State Tests
- Program Materials
 - Facilitator/Teacher Guide
 - Unit Plan

Click **PRINT**.

Another window will open, and you'll be able to print the student version by clicking on the printer icon at the top of that window. Close that window by clicking on the "x" at the top right hand corner and you'll return to your class mainpage.



After students have taken the test, either the facilitator or the student must enter student responses into the system.

Option 1: Facilitator/Teacher enters student responses

Click on the test name from the Class Mainpage. On the **Review an Existing Test** page, click **Answer Sheet**.

groberson11
VA ALGEBRA DEMO
SCHOOL 1

My Account

- Your Mailbox
- Your Profile
- Support
- Live Help Chat

Professional Resources

- Weblinks
- Test-Taking Strategies Grades 9 - 12
- About VA State Tests

Program Materials

- Facilitator/Teacher Guide

This class is:
Robertson - Period 1

Select A Class... **Go** **Help**

[Homepage](#)
[Class Mainpage](#)
[Class Settings & Roster](#)
[Create & Review Assignments](#)
[Your Reports](#)
[Skill Resources](#)

[REVIEW ALL ASSIGNMENTS](#)
[STORED ASSIGNMENTS](#)
[ASSIGN AN ACTIVITY](#)
[BENCHMARK TEST](#)

Review an Existing Test [Print Student Version](#)

Below are the details of the test you just created. Please review the information, then choose from among the options listed in the test options box on the right side of this screen.

Benchmark Test: VA Algebra I - Unit 1 Pre-test
Created by: c. districtadmin
Number of Questions: 15
Online/On Paper: on paper
Due Date: 11/26/2004

Test Options

- [Choose a different test.](#)
- [Edit Due Date & Assignees](#)
- [View Teacher Version](#)
- [Delete Assignment](#)

Student Name	Date Completed	Student Score	Answer Sheet
Student, Samantha	—	—	Answer Sheet

On the next page, enter in the student's answers by clicking on the appropriate radio button.

- [Support](#)
- [Live Help Chat](#)

- [Professional Resources](#)
- [Weblinks](#)
- [Test-Taking Strategies Grades 9 - 12](#)
- [About VA State Tests](#)

- [Program Materials](#)
- [Facilitator/Teacher Guide](#)
- [Unit Plan](#)
- [Teacher Quick Guide](#)
- [Student Quick Guide](#)
- [VA DOE Copyright](#)

Assignments
Answer Sheet for VA Algebra I - Unit 1 Pre-test

Samantha Student's Answer Sheet

Use this answer sheet to fill in Samantha Student's answers to this test. If your student skipped a question, choose Leave Blank. When you are finished filling in the answers, click Grade Test.

Current Score: Unscored

1.	<input type="text" value="A"/>	a. <input checked="" type="radio"/>	b. <input type="radio"/>	c. <input type="radio"/>	d. <input type="radio"/>	Leave Blank <input type="radio"/>
2.	<input type="text" value="B"/>	a. <input type="radio"/>	b. <input checked="" type="radio"/>	c. <input type="radio"/>	d. <input type="radio"/>	Leave Blank <input type="radio"/>
3.	<input type="text" value="C"/>	a. <input type="radio"/>	b. <input type="radio"/>	c. <input checked="" type="radio"/>	d. <input type="radio"/>	Leave Blank <input type="radio"/>
4.	<input type="text" value="D"/>	a. <input type="radio"/>	b. <input type="radio"/>	c. <input type="radio"/>	d. <input checked="" type="radio"/>	Leave Blank <input type="radio"/>
5.	<input type="text" value="C"/>	a. <input type="radio"/>	b. <input type="radio"/>	c. <input checked="" type="radio"/>	d. <input type="radio"/>	Leave Blank <input type="radio"/>
6.	<input type="text" value="C"/>	a. <input type="radio"/>	b. <input type="radio"/>	c. <input checked="" type="radio"/>	d. <input type="radio"/>	Leave Blank <input type="radio"/>
7.	<input type="text" value="B"/>	a. <input type="radio"/>	b. <input checked="" type="radio"/>	c. <input type="radio"/>	d. <input type="radio"/>	Leave Blank <input type="radio"/>
8.	<input type="text" value="A"/>	a. <input checked="" type="radio"/>	b. <input type="radio"/>	c. <input type="radio"/>	d. <input type="radio"/>	Leave Blank <input type="radio"/>
9.	<input type="text" value="D"/>	a. <input type="radio"/>	b. <input type="radio"/>	c. <input type="radio"/>	d. <input checked="" type="radio"/>	Leave Blank <input type="radio"/>
10.	<input type="text" value="A"/>	a. <input checked="" type="radio"/>	b. <input type="radio"/>	c. <input type="radio"/>	d. <input type="radio"/>	Leave Blank <input type="radio"/>
11.	<input type="text" value="B"/>	a. <input type="radio"/>	b. <input checked="" type="radio"/>	c. <input type="radio"/>	d. <input type="radio"/>	Leave Blank <input type="radio"/>
12.	<input type="text" value="C"/>	a. <input type="radio"/>	b. <input type="radio"/>	c. <input checked="" type="radio"/>	d. <input type="radio"/>	Leave Blank <input type="radio"/>
13.	<input type="text" value="B"/>	a. <input type="radio"/>	b. <input checked="" type="radio"/>	c. <input type="radio"/>	d. <input type="radio"/>	Leave Blank <input type="radio"/>
14.	<input type="text" value="B"/>	a. <input type="radio"/>	b. <input checked="" type="radio"/>	c. <input type="radio"/>	d. <input type="radio"/>	Leave Blank <input type="radio"/>
15.	<input type="text" value="D"/>	a. <input type="radio"/>	b. <input type="radio"/>	c. <input type="radio"/>	d. <input checked="" type="radio"/>	Leave Blank <input type="radio"/>

Clear Answers
Pause
Grade Test

When you are done, click **Grade Test** at the bottom of the screen. The system will grade the test and the student's score will appear.

grobertson11
 VA ALGEBRA DEMO
 SCHOOL 1

[My Account](#)

- [Your Mailbox](#)
- [Your Profile](#)
- [Support](#)
- [Live Help Chat](#)

[Professional Resources](#)

- [Weblinks](#)
- [Test-Taking Strategies Grades 9 - 12](#)
- [About VA State Tests](#)

[Program Materials](#)

- [Facilitator/Teacher Guide](#)
- [Unit Plan](#)
- [Teacher Quick Guide](#)
- [Student Quick Guide](#)
- [VA DOE Copyright](#)

This class is:

Select A Class... Go Help

Robertson - Period 1

Homepage
Class Mainpage
Class Settings & Roster
Create & Review Assignments
Your Reports
Skill Resources

REVIEW ALL ASSIGNMENTS
STORED ASSIGNMENTS
ASSIGN AN ACTIVITY
BENCHMARK TEST

Review an Existing Test

Print Student Version

Below are the details of the test you just created. Please review the information, then choose from among the options listed in the test options box on the right side of this screen.

Please note: Students have either completed, or started and paused, this assignment. You are therefore only able to edit the due date and assignees.

Benchmark Test: VA Algebra I - Unit 1 Pre-test

Created by: c. districtadmin

Number of Questions: 15

Online/On Paper: on paper

Due Date: 11/26/2004

Test Options

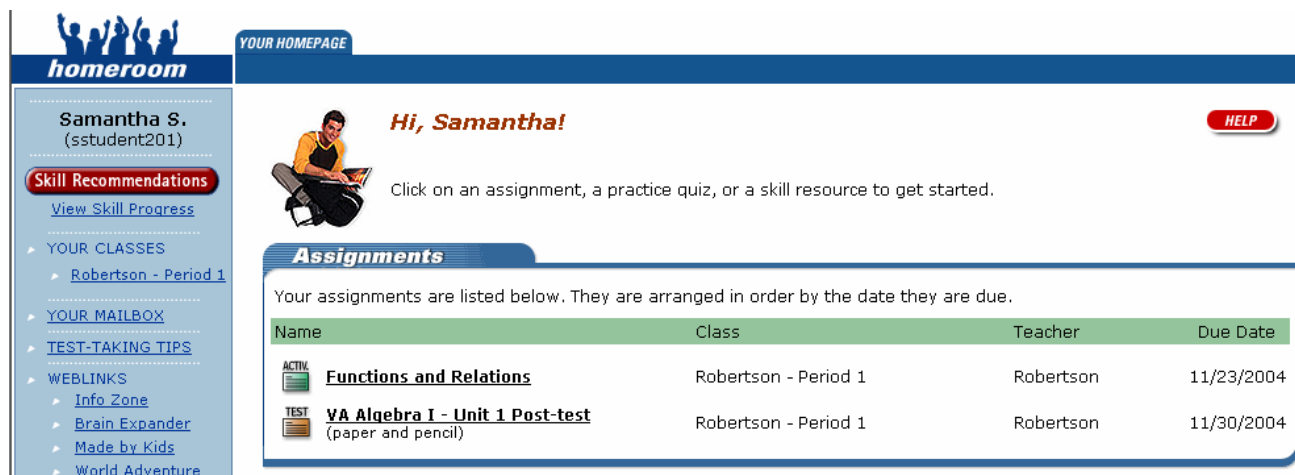
- [Edit Due Date & Assignees](#)
- [View Teacher Version](#)
- [Delete Assignment](#)

[Click here to view all of the students' answers on this assignment](#)



Student Name	Date Completed	Student Score	Answer Sheet
Student, Samantha	11/10/2004	20% ■	Answer Sheet

Option 2: Student enters her own responses

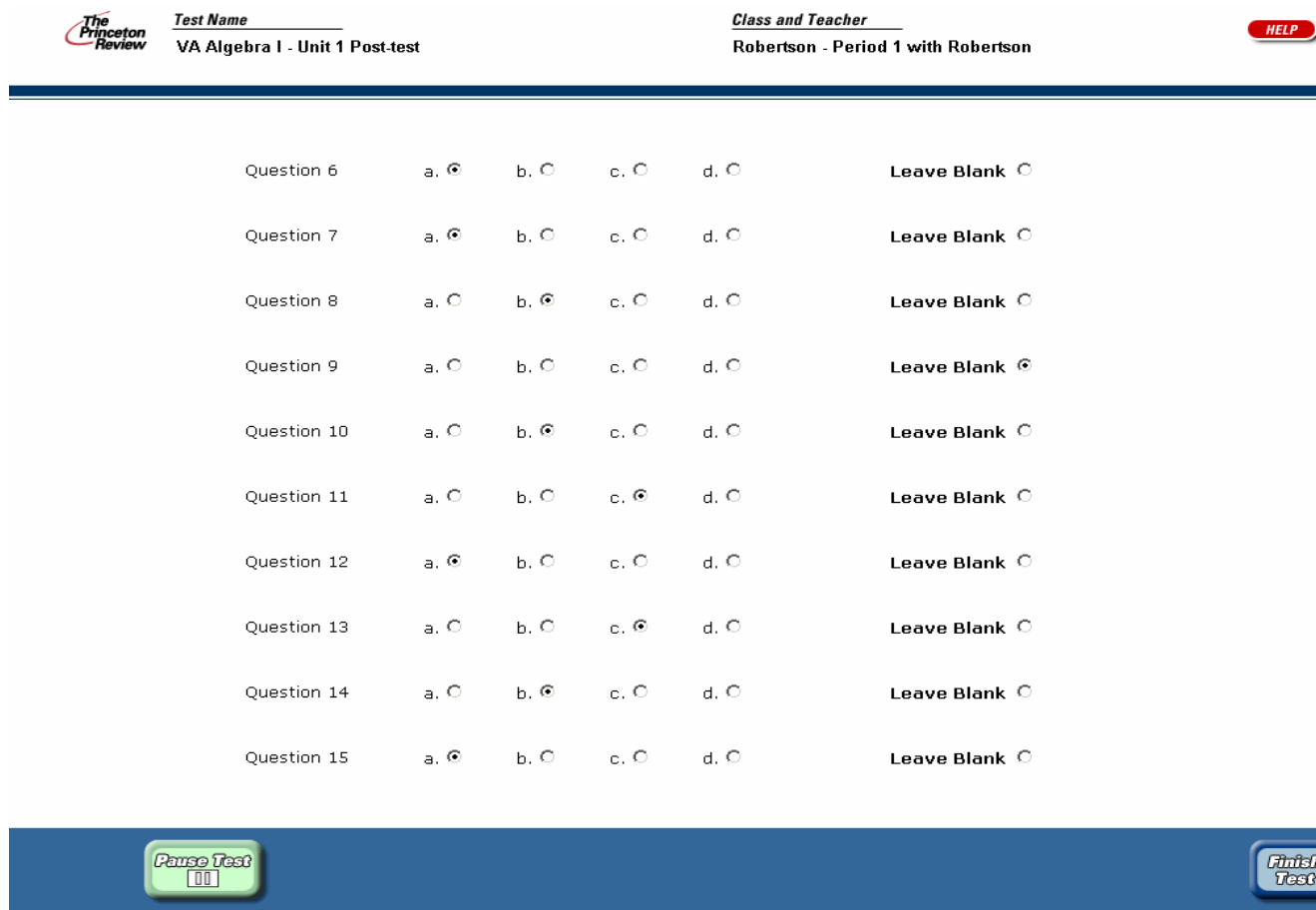
When the student is ready to enter her responses, she'll sign in to her account and click on the appropriate test name. Note the words (paper and pencil) indicating that the test is an on paper test.



The screenshot shows a student's dashboard in the 'homeroom' system. The student is Samantha S. (sstudent201). The dashboard includes a sidebar with links for Skill Recommendations, View Skill Progress, YOUR CLASSES (Robertson - Period 1), YOUR MAILBOX, TEST-TAKING TIPS, and WEBLINKS (Info Zone, Brain Expander, Made by Kids, World Adventure). The main area displays a greeting 'Hi, Samantha!' and a message to click on an assignment, practice quiz, or skill resource. Below this is an 'Assignments' section with a table of assignments.

Name	Class	Teacher	Due Date
 Functions and Relations	Robertson - Period 1	Robertson	11/23/2004
 VA Algebra I - Unit 1 Post-test (paper and pencil)	Robertson - Period 1	Robertson	11/30/2004

After the student clicks **Begin Test**, a virtual scantron sheet will appear full screen. The student should transfer her answers from paper to screen, then click **Finish Test**. After doublechecking her answers one last time, she'll click **Grade This Test** on the next screen. As with an online test, student results are immediately available to both student and teacher.



The screenshot shows a virtual scantron sheet for a test. The test name is 'VA Algebra I - Unit 1 Post-test' and the class/teacher is 'Robertson - Period 1 with Robertson'. The sheet contains 15 questions, each with four multiple-choice options (a, b, c, d) and a 'Leave Blank' option. The student's answers are indicated by filled circles.

Question	a	b	c	d	Leave Blank
Question 6	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Question 7	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Question 8	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Question 9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Question 10	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Question 11	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Question 12	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Question 13	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Question 14	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Question 15	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

At the bottom of the screen, there are two buttons: 'Pause Test' and 'Finish Test'.